

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/599,391

Source: IFWP

Date Processed by STIC: 1/12/07

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IFWP

RAW SEQUENCE LISTING

DATE: 01/12/2007

PATENT APPLICATION: US/10/599,391

TIME: 10:31:21

Input Set : A:\chymosin.final.ST25.txt

Output Set: N:\CRF4\01122007\J599391.raw

3 <110> APPLICANT: Sudershan Biotech

5 <120> TITLE OF INVENTION: Recombinant calf chymosin and a process for producing the
same

7 <130> FILE REFERENCE: PCT0602

C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/599,391

C--> 10 <141> CURRENT FILING DATE: 2006-09-27

12 <160> NUMBER OF SEQ ID NOS: 6

14 <170> SOFTWARE: PatentIn version 3.3

16 <210> SEQ ID NO: 1

17 <211> LENGTH: 366

18 <212> TYPE: PRT

19 <213> ORGANISM: calf

21 <400> SEQUENCE: 1

23 Met Ala Ser Ile Thr Arg Ile Pro Leu Tyr Lys Gly Lys Ser Leu Arg
24 1 5 10 15
27 Lys Ala Leu Lys Glu His Gly Leu Leu Glu Asp Phe Leu Gln Lys Gln
28 20 25 30
31 Gln Tyr Gly Ile Ser Ser Lys Tyr Ser Gly Phe Gly Glu Val Ala Ser
32 35 40 45
35 Val Pro Leu Thr Asn Tyr Leu Asp Ser Gln Tyr Phe Gly Lys Ile Tyr
36 50 55 60
39 Leu Gly Thr Pro Pro Gln Glu Phe Thr Val Leu Phe Asp Thr Gly Ser
40 65 70 75 80
43 Ser Asp Phe Trp Val Pro Ser Ile Tyr Cys Lys Ser Asn Ala Cys Lys
44 85 90 95
47 Asn His Gln Arg Phe Asp Pro Arg Lys Ser Ser Thr Phe Gln Asn Leu
48 100 105 110
51 Gly Lys Pro Leu Ser Ile His Tyr Gly Thr Gly Ser Met Gln Gly Ile
52 115 120 125
55 Leu Gly Tyr Asp Thr Val Thr Val Ser Asn Ile Val Asp Ile Gln Gln
56 130 135 140
59 Thr Gly Gly Leu Ser Thr Gln Glu Pro Gly Asp Val Phe Thr Tyr Ala
60 145 150 155 160
63 Glu Phe Asp Gly Ile Leu Gly Met Ala Tyr Pro Ser Leu Ala Ser Glu
64 165 170 175
67 Tyr Ser Ile Pro Val Phe Asp Asn Met Met Asn Arg His Leu Val Ala
68 180 185 190
71 Gln Asp Leu Phe Ser Val Tyr Met Asp Arg Asn Gly Gln Glu Ser Met
72 195 200 205
75 Leu Thr Leu Gly Ala Ile Asp Pro Ser Tyr Tyr Thr Gly Ser Leu His
76 210 215 220
79 Trp Val Pro Val Thr Val Gln Gln Tyr Trp Gln Phe Thr Val Asp Ser
80 225 230 235 240
83 Val Thr Ile Ser Gly Val Val Val Ala Cys Glu Gly Gly Cys Gln Ala

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84          245          250          255
87 Ile Leu Asp Thr Gly Thr Ser Lys Leu Val Gly Pro Ser Ser Asp Ile
88          260          265          270
91 Leu Asn Ile Gln Gln Ala Ile Gly Ala Thr Gln Asn Gln Tyr Asp Glu
92          275          280          285
95 Phe Asp Ile Asp Cys Asn Asn Leu Ser Tyr Met Pro Thr Val Val Phe
96          290          295          300
99 Glu Ile Asn Gly Lys Met Tyr Pro Leu Thr Pro Ser Ala Tyr Thr Ser
100 305          310          315          320
103 Gln Asp Gln Gly Phe Cys Thr Ser Gly Phe Gln Ser Glu Asn His Ser
104          325          330          335
107 Gln Lys Trp Ile Leu Trp Asp Val Phe Ile Arg Glu Tyr Tyr Ser Val
108          340          345          350
111 Phe Asp Arg Ala Asn Asn Leu Val Gly Leu Ala Lys Ala Ile
112          355          360          365
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116 <211> LENGTH: 1101
117 <212> TYPE: DNA
118 <213> ORGANISM: calf
120 <400> SEQUENCE: 2
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123 gagcatgggc ttctggagga cttcctgcag aaacagcagt atggcatcag cagcaagtac      120
125 tccggttcg gggaggtggc cagcgtgccc ctgaccaact acctggatag tcaagtacttt      180
127 ggggaagatct acctcgggac ccgcgccag gagttcaccc tgctgtttga cactggctcc      240
129 tctgacttct gggtaccctc tatctactgc aagagcaatg cctgcaaaaa ccaccagcgc      300
131 ttcgaccgca gaaagtcgtc caccttcacg aacctgggca agcccctgtc tatccactac      360
133 gggacaggca gcatgcaggg catcctgggc tatgacaccg tcactgtctc caacattgtg      420
135 gacatccagc agacaggagg cctgagcacc caggagcccg gggacgtctt cacctatgcc      480
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147 ggcacctcca agctggtcgg gccagcagc gacatcctca acatccagca ggccattgga      840
149 gccacacaga accagtacga tgagtttgac atcgactgca acaacctgag ctacatgccc      900
151 actgtggtct ttgagatcaa tggcaaaatg taccactga cccctccgc ctataccagc      960
153 caggaccagg gcttctgtac cagtggcttc cagagtgaat atcattcca gaaatggatc     1020
155 ctgtgggatg ttttcatccg agagtattac agcgtctttg acagggccaa caacctcgtg     1080
157 gggctggcca aagccatctg a                                     1101
160 <210> SEQ ID NO: 3
161 <211> LENGTH: 25
162 <212> TYPE: DNA
163 <213> ORGANISM: Artificial Sequence
165 <220> FEATURE:
166 <223> OTHER INFORMATION: reverse primer for amplification of prepro chymosin
168 <400> SEQUENCE: 3
169 tgtggggaca gtgaggttct tggtc                                     25
172 <210> SEQ ID NO: 4
173 <211> LENGTH: 24

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174 <212> TYPE: DNA
175 <213> ORGANISM: Artificial Sequence
177 <220> FEATURE:
178 <223> OTHER INFORMATION: forward primer for amplification of prepro chymosin
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185 <211> LENGTH: 39
186 <212> TYPE: DNA
187 <213> ORGANISM: Artificial Sequence
189 <220> FEATURE:
190 <223> OTHER INFORMATION: forward primer containing Nde I site
192 <400> SEQUENCE: 5
193 gatatacata tggctagcat cactaggatc cctctgtac 39
196 <210> SEQ ID NO: 6
197 <211> LENGTH: 34
198 <212> TYPE: DNA
199 <213> ORGANISM: Artificial Sequence
201 <220> FEATURE:
202 <223> OTHER INFORMATION: reverse primer containing Hind III site
204 <400> SEQUENCE: 6
205 gcagtaagct tgacagtgag gttcttggtc agcg 34

VERIFICATION SUMMARY

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L:9 M:270 C: Current Application Number differs, Replaced Current Application Number

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date